

Computer virus detected on campus; *Safe Hex* recommended reading

During the past few weeks, several University of Alberta teaching departments have had their Macintosh computers infested by a computer virus. All reported infestations have been investigated by University Computing Systems (UCS) and are under control, but the virus is present on campus and the possibility of other microcomputers coming in contact with this or another strain of computer virus exists.

This particular virus, called the nVIR virus, is not overly dangerous if detected early. It can only infect Macintosh computers, and infects only System and application files; it does not infect data files. Some of

the symptoms that infected Macintoshes exhibit include unexplained system crashes, slower than normal printing, problems printing documents, and unexplained beeps or other noises from the machine at irregular intervals.

Please be aware that other problems can cause similar symptoms on your computer. Just because your Macintosh is exhibiting strange behavior does not necessarily mean that it is infected. Several years' experience on microcomputers indicates that less than one in 50 computer problems is actually a computer virus attack.

Prevention is the best protection against computer viruses. The UCS handout *Safe Hex: Avoiding Computer Viruses* (N165.0489) is available from the Client Services Centre; it is also available online on MTS through *INFO. This handout is a reprint of the article by the same name that appeared in the November 1988 issue of the *Dispatch*. It outlines the steps that computer users can take to protect themselves as much as possible from a computer virus attack.

If your machine is infected, experienced UCS staff can help you. The consultants in the UCS Micro Demonstration Centre (MDC), located in 302 General

Services Building (492-5105), can provide advice and guidance.

UCS has collected several freeware and ShareWare programs that will detect all known Macintosh viruses. These programs are available from the MDC. If you would like copies of these packages, bring two 800K DS/DD 3.5" disks to the MDC. They will be reformatted and the Macintosh anti-viral software placed on them. Any previous information on the disks will be lost. While there is no charge for this service, clients are reminded that most of these anti-viral packages are ShareWare and are encouraged to pay the appropriate ShareWare fees to the developers.

If a computer application is actually infected, UCS recommends that the infected copy be deleted and replaced from your original, write-protected master diskettes. We do not recommend that anti-viral packages be used to try and repair an infected program. Experience has shown that this is not always successful, and in some cases has done more damage than the original viral attack. Only if the application is not available any other way (such as a downloaded public-domain program) is attempted repair suggested.

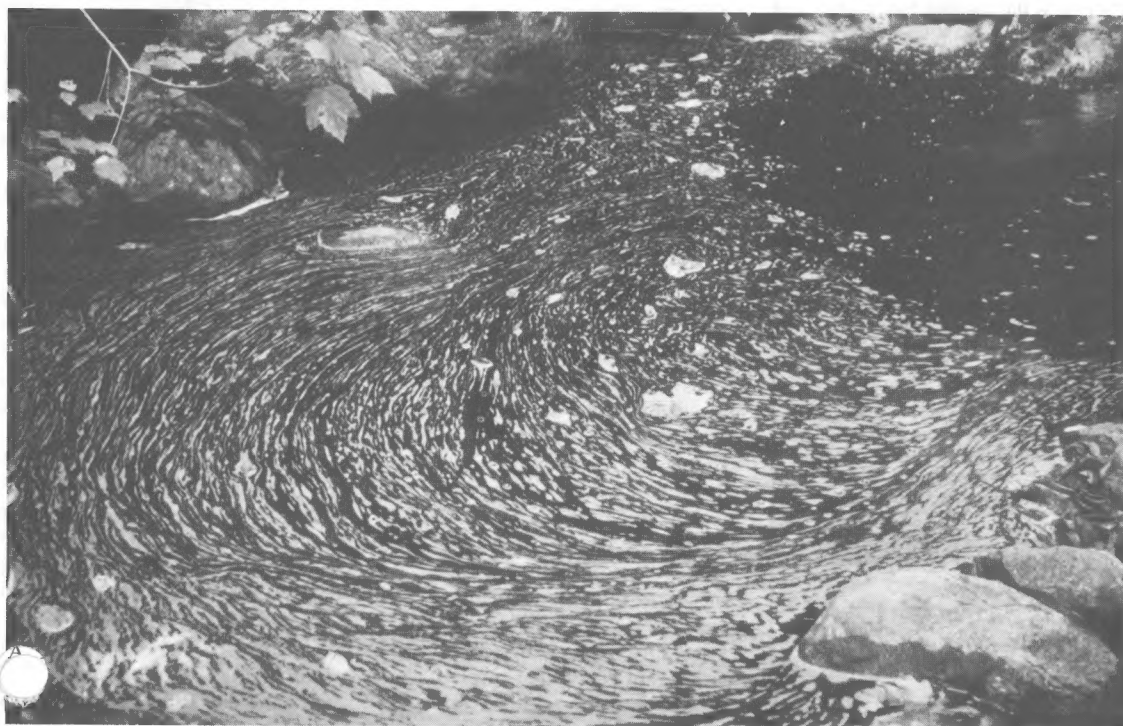
While computer viruses are a fact of life, with proper care and caution, most computer users can protect themselves from the problem and need never be affected. UCS staff are experienced in dealing with computer virus problems and are available for consultation and assistance.*□

*This article was submitted by Peter Johnston, Senior Analyst, University Computing Systems.

FOLIO

University of Alberta

20 April 1989



Pool your resources: Folio wishes all final exam writers good luck. Ideally the process will have all the tranquility of "Awaasee Pool", John Martin's (Chemistry) award-winning entry in the Lake Superior Provincial Park photography contest.

University of Alberta

INSIDE

- Manfred Prokop discusses teaching of second languages
- Student profile: Dragos Ruiu
- Doris Badir talks about equity
- Currents

Folio, 20 April 1989

Methodology crucial to second-language teaching and learning

Manfred Prokop (Germanic Languages) talked about "Difficulties and Rewards of Teaching and Learning: Second Languages at the University," in the third lunch-time forum on the nature and philosophy of teaching in the arts. Professor Prokop is a recipient both of the Faculty of Arts Teaching Award and a Rutherford Award for Excellence in Undergraduate Teaching.

Education in most disciplines puts the transmission of content ahead of pedagogical technique, but methodology is crucial to second-language teaching and learning. Where students need to move rapidly from zero knowledge to an ability to deal with questions of culture, politics, and the economy in a new language, Professor Prokop said, "learning theory and findings from

psycholinguistic research are of the greatest relevance for day-to-day teaching."

Two major perspectives have characterized the many methodologies historically propounded for second-language teaching. In one, a new language is said to be best learned through the conscious effort of learning rules and memorizing vocabulary. The other says language learning is most effectively acquired when it is "picked up" through real use.

The latter perspective underlies the now-popular "communicative approach", which stresses the importance of personally meaningful content and a supportive learning environment. The approach is being implemented in schools across Canada, Europe and the US, as supporters point to its effectiveness

and its enhancing of learning satisfaction. Opponents say that students tend to reach a learning plateau, and have trouble then developing the linguistic expertise needed for university coursework.

After reviewing the strengths and weaknesses of the communicative approach, Professor Prokop advocated an integration of both the cognitive and the communicative orientations. Fluency and accuracy are complementary rather than mutually exclusive goals, he said, and students do use cognitively-acquired knowledge to correct and expand their use of a

new language. "Developing the student's cognitive skills in dealing with language forms should go hand in hand with the acquisition and use of the language itself, with emphases continuously shifting from one approach to the other," Professor Prokop said.

He also pointed out that the second-language teacher's attention to methodology has additional wide-reaching benefits, by offering concrete and practical suggestions for developing effective learning strategies. He said, "Language course instructors can be extremely helpful in helping students learn how to learn." □

Student profile: Dragos Ruiiu, Editor-in-Chief, *The Gateway*

Dragos Ruiiu is the 1988-89 Editor-in-Chief of *The Gateway*. He studies part-time towards a bachelor's degree in computer engineering, with plans to finish in 1990.

Of Romanian descent, Ruiiu has lived in Washington, Montreal and Regina, and comes from a family of engineers. There are only 40 students admitted to the University of Alberta's Computer Engineering program each year and job prospects are quite high. During the summers, Ruiiu works in the computing field. He would like to have a career that includes writing. He says that although his editorship does not fully substitute for a degree in journalism, it is a start.

According to Ruiiu, *The Gateway* is the "heartbeat" of the campus. The University of Alberta is such a busy campus that story ideas are never lacking. He likens the campus to a small world and does not think it would be as exciting to work for the paper of a smaller campus.

Ruiiu compares running *The Gateway* to running a small corporation with a staff of eight. He says he works with a good team. From September through April, a print run occurs every Monday and Wednesday evening so that 13,000 issues can be available each Tuesday and



Dragos Ruiiu

Thursday. The editorship is one of those jobs that seems never to end, but Ruiiu always finds the time and energy, often working on Sunday evenings and from 5 to 11 pm on paste-up days. There is a salary for his services, but after all is said and done, he figures he earns approximately \$2-\$3 per hour.

Ruiiu finds the work to be very political in nature. For instance, student election time is "down and dirty". The paper is careful of its look and journalistic style. He calls the style of today's *Gateway* "advisory journalism", versus the "radical journalism" of the late 1970s. Styles today are more professional.

Editing *The Gateway* is a "log nightmare" but Ruiiu manages to keep things "clicking along". His

Continued on page six

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Important map of Galicia and Bukovina acquired by William C Wonders Map Collection

The Map Collection of the University of Alberta has acquired a very detailed map of the Western Ukrainian territories of Galicia and Bukovina from the end of the 18th century. The size of the map, when its 49 individual pieces are put together, is about 165x230 cm.

According to Map Curator Ron Whistance-Smith, the map is based on a survey of Galicia conducted by Josef Liesganig (b Graz 1719, d Lviv 1799; Jesuit, mathematician and astronomer) after Austria acquired Galicia from Poland in

1772 and on a survey of Bukovina by the general quartermaster's staff of the Austrian army after Turkey ceded the region to Austria in 1774. Johann von Liechtenstern (b Vienna 1765, d Bucholz near Berlin 1828; geographer and statistician) incorporated the results into a perspective topographic map at one-tenth of the scale of the survey. The map was published in Lviv in the summer of 1794. Gottfried Prixner (b c.1746, d Budapest 1819), a copper engraver active in Vienna, Lviv and

Budapest, executed the copperplate engraved map. It features a large allegorical cartouche after a drawing of Franz Anton Maulbertsch (personifications of the rivers and natural wealth of the land, a surveyor at work, shepherds, peasants and highlanders).

The exact title of the map is: Josef Liesganig and Johann von Liechtenstern, "Regna Galiciae et Lodomeriae Josephi et M Theresiae Augg. iussu methodo astronomico trigonometrica nec non Bukovina geometrica dimensa . . ."

Board, GFC happenings

The following developments took place at the most recent meetings of the Board of Governors and General Faculties Council, respectively.

The following were appointed to Department Chairs by the Board's National Affairs Committee:

Eugene Ratsoy, Department of Educational Administration, for a five-year term.

- Maurice Legris, Department of English, for a three-year term.
- Brian Chatterton, Department of Geology, for a five-year term.
- Jerry Whiting was reappointed to the Chair of Mining, Metallurgical and Petroleum Engineering for a four-year term.

The appointments take effect on 1 July.

Approval was also given to the Proposed University of Alberta Bicycle Operating and Parking Regulations. It is intended that these regulations will eventually form part of the University's Traffic and Parking Regulations, as approved annually by the Board.

Central administration has authorized the expenditure of up to \$25,000 for implementing the purchase and installation of bicycle storage racks (\$15,000) and planning and construction of bicycle paths (\$10,000).

More on bicycles on campus in future editions of *Folio*.

GFC news

Most members of Council agreed that the courses in Film Studies that have been offered since 1978

are in need of consolidation and further development.

Pending receipt of special funding from Alberta Advanced Education, the institution of a major concentration and a second subject in Film Studies with the Faculty of Arts' four-year BA program will occur. These additions, it is felt, will answer both to student interests and to wider University and community concerns.

In considering the proposal, GFC noted that "there is a need for individuals with film and media literacy in fields such as education, journalism, public relations, and the film and entertainment industries, and it is both a responsibility of and an opportunity for the University to provide such individuals."

According to Pat Clements, Dean of Arts, "... what has been an extremely useful set of interdisciplinary service courses needs, at this stage in our development, to become a fully developed, coherent, integrated program."

Correction

In the second paragraph of a *Folio* (23 March 1989) article on McCalla Professor Colin Hoskins, he is quoted as saying, "If you don't understand the economics of this cultural industry, you cannot produce effective regulations for the people in it to make money."

The point made by Dr Hoskins was to the effect that "If regulators/policy-makers do not understand the economics of this cultural industry, the regulations they adopt will not be effective (i.e., induce the desired behavior) because they will not recognize the motivation of the industry participants is to make money."

To clarify, Dr Hoskins says the suggestion is not that regulations should permit broadcasters (or other industry participants) to maximize profits, but that regulations need to recognize this is the way firms operate, and be framed in such a way that broadcasters, pursuing profit maximization, act in a manner that also promotes the public good.

Search Committee for a Chancellor

A Search Committee for Chancellor is now being struck. This committee will include three members appointed by GFC. Nominations are now being solicited from academic staff, support staff and students. If you wish to submit a nomination, please forward a brief résumé and letter of nomination to: Mary Delane, Coordinator, GFC Nominating Committee, 2-5 University Hall, by 15 May 1989.

Your beating heart

A sensitive monitor protects heart attack victims.

A new type of electrode, developed by cardiologist Francis Witkowski at the University of Alberta, may prevent some of the 300,000 sudden cardiac deaths that occur annually in North America.

The culprit in most of these deaths is an irregular, frenzied heartbeat that does not give the heart time to pump. (The process is called "ventricular fibrillation".) Victims usually die within minutes unless they receive "defibrillation"—an electric shock that jolts the heart muscle out of its frenzy and back to a regular rhythm. Survivors of such episodes—at high risk for a reoccurrence—can have small defibrillators implanted in their chests to monitor the heart and stimulate it if fibrillation begins. But the effectiveness of such devices is limited by gaps in researchers' understanding of how and why defibrillation works.

These gaps are closing, thanks to Dr Witkowski's new electrodes which can simultaneously monitor the tiny electrical signals (20 to 50 millivolts) produced by heart muscle and the relatively huge signals (500 volts) required to defibrillate the heart and prevent death.

The electrodes transmit information about electrical impulses from the layers of heart muscle, revealing important information about the delicate timing of the contraction and relaxation of heart muscle. They also make it possible to track energy during defibrillation, helping researchers understand where the current goes, how it should be distributed and how powerful it should be.

The work should lead to improved defibrillators to implant in high-risk patients. Eventually, Dr Witkowski foresees development of an implant sensitive enough to pick up minute rhythm changes that precede fibrillation, and to respond in time to keep the heart pumping.

Dr Witkowski's work is supported by the Alberta Heritage Foundation for Medical Research.*

**Reprinted from Research Report, published quarterly by the University's Office of Public Affairs.*

Perspective on equity

Employment equity is a term coined by Judge Rosalie Abella in the Royal Commission Report, *Equality in Employment* (1985). The report says: "Equality in employment is not a concept that produces the same results for everyone. It is a concept that seeks to identify and remove, barrier by barrier, discriminatory disadvantages. Equality in employment is access to the fullest opportunity to exercise individual potential."

The University of Alberta seeks to ensure that it is a comfortable environment for persons from all walks of life and from the full range of groups which make up Albertan and Canadian society. It seeks to provide an atmosphere free from discrimination (on the basis of race, religious belief, color, sex, physical disability, marital status, age, ancestry or place of origin) in which academic and support staff and students can work to their fullest potential. It is concerned with removing barriers to equality of employment.

Embedded in the concept of employment equity is the notion that people should be rewarded for their work on the basis of the value of the job they are doing rather than on the basis of gender, in other words, the concept of equal pay for work of equal value or pay equity.

The University redefined its commitment to employment equity by a decision of General Faculties Council in October 1987 which was later ratified by the Board of Governors. This definition can be found in Section 48 of the GFC Policy Manual. This policy explicitly states that ameliorative action can be taken to eliminate discrepancies which are the result of past action or inaction. In other words, by implication, the University of Alberta is embarked on a plan of 'affirmative action' insofar as affirmative action (by the Abella definition) and employment equity are synonymous. Where many critics of the University policy misinterpret the policy is by assuming that 'affirmative action' Canadian-style is the same as that introduced in the United States. Canadian policy dissociates itself from this interpretation and operationalizes the term 'employment equity' in the form of goals and working guidelines for target group representation. It is both an objective and a strategy and will in the long term bring about a redistribution in the labor force.

Folio asked the following questions of Doris Badir, the University's Equity Adviser.

Q. When we talk of affirmative action or employment equity, are we talking of the establishment of quotas to be reached by a specified time, or of a policy that requires what in many people's minds is 'reverse discrimination'?

A. Essentially, embracing the principle of 'employment equity' (as defined by the federal legislation) requires the elimination of barriers to employment opportunity and the institution of special measures to improve the status and opportunities enjoyed by the designated groups — namely women, aboriginal peoples, persons with disabilities and members of visible minority groups.

Q. What do we mean?

A. We are saying that we are trying to create, within the University, an atmosphere that is comfortable, fair and equitable. We are saying that the University will provide equal opportunities for persons to enter and move through the system whether those persons who wish to do so are students, academic or support staff. We are saying that we wish to encourage selection and evaluation processes which look beyond the visible characteristics which persons carry for the merit or excellence which is being sought.

Q. What, then, are the basic principles of employment equity?

A. Equal access to job opportunities without discrimination on

any basis other than qualifications for the job; equal pay for equal work, where people are paid the same who are doing the same job; ultimately, pay equity, which means equal pay for work of equal value. The last implies that there are many jobs within the system which are not necessarily rewarded in a way that reflects their value to the system. This most frequently occurs in what are referred to as 'ghettoized' jobs where large numbers of women are employed at very low wages.

Q. Are we implying, by espousing employment equity, that the University must appoint unqualified persons in order to meet its goals?

A. The answer is an unqualified 'no'. At no time has it ever been suggested that the University must lower its standards. The implication is that we may not always have looked as far afield or as closely as we could have, at applicants who are female, aboriginal, disabled or from a visible minority group. There may be highly qualified, excellent candidates from these groups who are overlooked because of prejudice or ignorance. Merit, excellence, potential, whatever you wish to call it, should always be sought. We believe it can be found by casting the net more widely.

"... we have to make an effort to bring up the numbers of aboriginal and disabled persons in our workforce."

Q. Are we talking about women particularly or do we need to be concerned about these other groups mentioned in the Employment Equity Act as well?

A. We generally talk about women because they make up by far the largest group who appear to have been disadvantaged both in the University and in society as a whole. The census which we took last year on the U of A campus told us that of the persons who responded to the questionnaire, 51.5 percent were female; 1.2 percent were aboriginal; 1.9 percent were disabled and 9.5 percent were members of a visible minority group. The response represented about 61 percent of the total full-time workforce at the University. Comparing these figures to the Alberta figures which were 48.9 percent, 3.2 percent, 11 percent and 5.3 percent, respectively, we can see that we have to make an effort to bring up the numbers of aboriginal and disabled persons in our workforce.

Q. How do we get a greater representation from these groups?

A. One way has of course already been mentioned and that is not to overlook them or dismiss them in the appointment process. Another is to deliberately seek them out, i.e., request their applications in job advertisements. Yet a third way is to be certain, particularly for academic positions, that these groups are getting into graduate schools and are being encouraged to complete the qualification requirements. Any one of these three methods would be considered affirmative action.

Q. Is there discrimination at the U of A?

A. Perhaps we have first to talk about what discrimination is. There are several types: overt discrimination where we deliberately exclude persons on the basis of dislike, fear, prejudices, etc.; covert discrimination which results in unequal treatment of persons on the basis of their possession of characteristics which we do not or cannot openly admit to using as a basis for unequal treatment. It is not likely that either of these two exist at the U of A but it is likely that some systemic discrimination is operating.

"There is a problem within the University which worries me because I think it amounts to systemic discrimination."

Q. What do you mean by systemic discrimination?

A. Systemic discrimination occurs when there is an exclusion of certain groups through use of policies based on criteria which are not job related and are not required for the sake of efficient operation of the job.

Q. Can you give some examples?

A. The most obvious ones are those that specify height or weight, neither of which are necessary to carry out the tasks of a job. Less obvious ones ask for ability to work overtime or on weekends simply to eliminate a married woman with children rather than for any job-related need.

There is a problem within the University which worries me because I think it amounts to systemic discrimination. There is a kind of clockwork that is believed relevant to the academic career. A measure of potential appears to be length of time it takes to complete the qualifications for the job — four years to a bachelor's degree, two years to a master's and four years to a PhD. Longer than this suggests lack of ability or initiative. When one thinks about this one realizes that there is every likelihood that neither women, natives, disabled persons nor persons whose first language was other than English would be able to complete their qualifications within such a time frame. Moreover, once women do enter the system, if they do so before the age of, say, 35, and they do not, as yet, have a family, they are likely to want to take time out for maternity leave. This seems to be seen as lack of commitment to an academic career. In other words, anything which prevents a person from adhering to the clockwork of the traditional male career model is as aberrant. The only hope I see is that many men are now finding that in order to finance their studies it has become necessary to reduce course loads, which inevitably changes the time-line for completion of the degrees. Many men too are finding that they want to participate more fully in the life of their family. They want to take time off to enjoy the growth and development of young children. Some may even want to drop off the line for a year or two to 'smell the flowers'. It just may be that we will acquire more tolerance for the unusual career path, recognizing that excellence is not measured in numbers but in creativity and initiative which do not necessarily relate to the clock or the calendar.

Q. Are women paid less than men at the U of A?

A. There is a simple answer to that which is 'yes'. That does not, however, give an accurate picture. The most recent figures I have for the academic staff, for instance, tell me that the mean salary for male and female Assistant and Associate Professors is the same. There is a difference of close to \$5,000 between the mean salary for male Full Professors and female Full Professors. I believe that this can be accounted for by the fact that male Professors outnumber female Professors almost ten to one and that females are slightly younger than males (one year difference in the mean) and that the mean number of years since PhD is 19 for males and only 15 for females.

The answer for the support staff is equivocal because, as you know, we are in the throes of attempting to remove the differences found in the 1982 Mercer Report.

Q. Pay equity — what does it mean?

A. The simple answer is: equal pay for work of equal value. What this means is that given the value or importance of jobs to the overall functioning of the organization, where two jobs are of equal value they should be rewarded with the same pay. Keep in mind that we are not talking of the value or worth of a particular employee nor are we evaluating performance. We are

valuing the worth of the job (the tasks performed by the employee). Two persons performing the same job but with different levels of performance will be differentiated by the annual job performance evaluation.

Implementation of a pay equity scheme requires that all jobs be classified in a way that allows for measures of comparability.

Q. Why did the University embark on a pay equity program?

A. Most studies which have been done on the workplace in Canada, as elsewhere, show that women tend to be clustered in certain job categories—clerical, sales and service occupations—and that these all tend to be the lowest paying occupations. Concern with equity and justice suggests that if these jobs are important to the economy, and most would agree that they are, then they should be adequately rewarded in accordance with their worth. They should not be rewarded on the basis of the notion that women, who fill these jobs, are second earners taking time away from their primary role (housekeeping) which is assigned no value in the larger economic scheme of things.

The University acknowledged that the Mercer Report showed its workforce to mirror the workforce in general. It corroborated the findings of the Abella Report. The University, wishing to show the importance it placed on fairness and justice within its system and believing that it had a responsibility to exhibit leadership in such issues, determined to implement a pay equity program early in 1985.

Q. The University has signed an agreement with the federal government with respect to employment equity. What does this involve and why did the U of A sign it?

A. The University signed an agreement with Canada Employment and Immigration in March of 1987 which commits it to compliance with *The Canada Employment Equity Act* under the Federal Contractor's Program. In effect this means that researchers within the University will be eligible to apply for and be granted contracts with the federal government. It requires that the University report, when required, on the representation of the above named groups in their workforce and the trends in appointment and in promotion. This means that the University has to be able to identify the numbers of persons from these groups already in the workforce and their progress in the system as well as the results of new employment initiatives. It will perhaps be recalled that about one year ago we attempted a census to determine the numbers of persons from these groups in our workforce. While the results gave us numbers, they did not allow us to identify these persons so we have no way of tracing their place in the system or their progress in the system. We were overly sensitive to the need to preserve anonymity and not sensitive enough to the purpose for which the survey was being carried out.

"It therefore seems necessary to encourage the debate about equality of opportunity and pay equity."

Q. What are the remedies which will result in changes to the system to reflect this policy?

A. I'm not sure that I have all the remedies or that the strategies that I suggest will remedy the situation, but here are some of the things that have worked in other milieus:

- Education: Unless we are made aware of the consequences of our actions it is not likely that change will take place. It therefore seems necessary to encourage the debate about equality of opportunity and pay equity. I am never particularly happy with insulting or degrading arguments because they tend to put everyone on the

defensive and little is served by such debate. I do however welcome some of the debate that has been taking place in *Folio* and in the open forum sponsored by AAS:UA. This, I feel, allows for people to openly express their attitudes and to listen to the other side. It is my hope that we will be able to have more of these opportunities over the next year.

- **Neutrality:** Some institutions have replaced a formerly discriminatory system with a policy of nondiscrimination but with no mechanism or program to implement it. The result is that there is no negative impact (who could be against equity in principle?). The barriers to achieving equity have been removed but there is a real danger that nothing will be achieved.

- **Remedial measures:** Here we would give preferential treatment to women and persons of aboriginal descent, persons with disabilities and persons from visible minority groups. We would introduce affirmative action American-style. This would hasten change but it does not necessarily bring about permanent change and it leaves us open to charges of reverse discrimination.

- **Support measures:** Along with the commitment to look beyond the stereotypes, we could introduce some support measures which would make the workplace more friendly to the problems which these groups face in trying to achieve their potential on the job. Here we might be talking of such things as child care, parental leave, modification to landscape and buildings for ease of access, provision of interpreters at Council and Association meetings for the hearing handicapped. The list could go on. The changes would be permanent changes to the University fabric and they would benefit everyone, not only the group which has been discriminated against.

- **Reasonable accommodation:** This is action which will accommodate the differences among applicants but will enable the person appointed to get the job done. The changes required may be based specifically on the circumstances of a particular individual, e.g., employing an interpreter for a deaf person, a reader for a blind person or rearranging the landscape in an office to allow for a wheelchair or purchasing special telephones, typewriters or computers which will allow persons to work more efficiently.

Q. What are your hopes for the success of employment equity at the U of A?

A. I believe that the University will be a much more exciting, creative and productive place if we seek to have as rich a representation of scholars and scholarly support workers as the population can provide. I believe that it is the responsibility of a university to lead the community in demonstrating how this can be accomplished. I believe that we will be as successful in achieving equity as we are able to achieve commitment to these principles. The kind of major change that we are envisioning will not happen overnight. There is evidence that the change is occurring even now and one can only hope that each new generation which enters the University community will bring a little more of this commitment. □

Search/Review Committees for Deans

Search/Review Committees for Deans are now being struck for the Faculties of Extension and Rehabilitation Medicine and for Faculté Saint-Jean.

The Faculty of Extension Committee includes five persons elected by GFC. The Faculty of Rehabilitation Medicine and the Faculté Saint-Jean Committees each require one person elected by GFC from a Faculty other than the one concerned.

If you wish to submit a nomination, please forward a brief résumé and letter of nomination to: Mary Delane, Coordinator, GFC Nominating Committee, 2-5 University Hall, by 15 May 1989.

page six, *Folio*, 20 April 1989

Ruiiu

Continued from page two

role is more than merely editing. He directs, acts as troubleshooter, writes articles and editorials, takes photographs, and works in the darkroom. For the most part editors have been Political Science or English majors. Having an Engineering student as editor is different for *The Gateway*. Ruiiu especially found it interesting to put out the editions during Engineering Week in January because this annual event generally causes a lot of commotion on campus.

If not for his campus activities, Ruiiu feels he would be lost in the academic portion of his education. He has no regrets that he has chosen the longer, part-time route towards his degree—otherwise he would not have gained from his activities. Ruiiu, who has always maintained a busy schedule (he was a floor coordinator in student residence for two years and wrote for *The Gateway* before taking up the editorship), feels that he knows more now about the University's facilities and events than he ever dreamed possible.

One of the highlights of the 1988-89 *Gateway* season, according to Ruiiu, was the "Day in the Life" issue which appeared in the fall. Many hours were devoted to the production of this 24-hour kaleidoscope and it paid off in compliments, including a number from other newspapers.

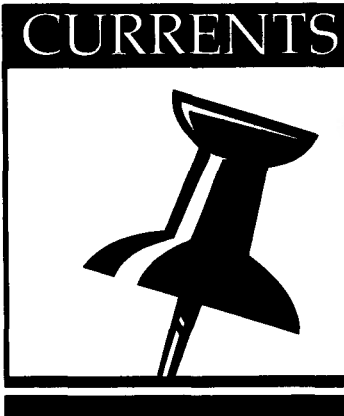
Although his tenure as editor is about to end, Ruiiu plans to continue his association with the paper in 1989-90, the final year of his degree. □

Symposium on community health

On 27 April, from 9 am to 4 pm in Bernard Snell Hall, Mackenzie Health Sciences Centre, there will be a symposium addressing current issues in community health.

The keynote address will be given by Brian Williams, University of Sheffield, on "The Evaluation of New Technology." Topics to be presented will pertain to a host of health-related disciplines.

Registration is free. For more information, or to receive a program, call: Community Medicine Program, Department of Health Services Administration and Community Medicine, 492-6402. □



Campus reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACCR), **Pensions and Benefits Administration** is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee on 3, 4, and 5 May 1989.

In preparation for this second phase, PACCR invites written comment prior to 1 May 1989. Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee.

Submissions should be sent to: Mrs Shirley Moore, Coordinator, PACCR Office, W4-13 Chemistry Building, Attention: The Pensions and Benefits Administration Unit Review Committee.

Rheumatoid arthritis — study of coping responses

Rheumatoid arthritis patient volunteers are needed for a study of coping responses. To participate, call Tom Strong at 492-5205 and leave your name and campus address.

Farewell Reception for William Blanchard

William Blanchard, Professor of Psychology, is retiring from the University of Alberta, and a reception in his honor is to be co-hosted by the Department of Psychology, the Faculty of Arts, and the Office of the Registrar.

Dr Blanchard began his career at the University of Alberta in 1961 when he was appointed Assistant Professor of Psychology. He became Associate Professor in 1968, and Professor in 1974. In 1969-70 he served as Acting Chairman of the Department of Psychology, and from 1972 to 1979 was Associate Dean of Arts for Curriculum and Student Programs. From 1980 to 1985 he served as Registrar of the University.

The farewell reception in Dr Blanchard's honor will be held in the Upper Lounge of the Faculty Club on Wednesday, 10 May, from 4 to 6 pm. All of his friends and colleagues are invited to attend.

Anyone wishing to contribute to a gift should send a cheque, made payable to "University of Alberta", to Pamela Jarvis, Department of Psychology, P220 Biological Sciences Building, before 5 May.

Walsh new leader of Project Leadership Dialogue

Thomas Joseph Walsh has been appointed Chair of the University of Alberta's Project Leadership Dialogue, 1989-90.

He succeeds Lou Hyndman, who served as Chair of Project Leadership from 1986 until March 1989. During that time, alumni pledged more than \$4 million to the University through direct mail and personal telephone solicitation from student callers. The Development Office will continue this annual appeal to alumni under the new name of Project Leadership Dialogue.

Mr Walsh, who heads the Calgary law firm, Walsh Young, says, "My best years were at the University of Alberta—two degrees (BA, LL.D), Block "A" Sweater (athletics), Gold "A" Ring (service), my pilot's wings in the Air Force, and my wife—who could ask for more plus all the fun."

Mr Walsh has continued his record of achievement in service to his profession and his community. Currently, he is a member of the Canadian Bar Association's standing committee on pensions and judges' spouses and judges' salaries. He served as National President of the Canadian Bar Association 1978-79, he is a member of the American Bar Association, and a Past Bencher of the Law Society of Alberta.

Appointed President of the Calgary Chamber of Commerce in



Tom Walsh will be awarded an honorary Doctor of Laws degree during Spring Convocation ceremonies, 7 June.

1987, Mr Walsh sits on a number of committees of the Canadian Chamber of Commerce.

A former member of the University of Alberta Senate,

Mr Walsh provided leadership in raising funds through his Law class of '53 to supply a large table for the refurbished Senate Chambers in the Arts Building. □

Schein to head deafness subcommittee

Jerome Schein, first holder of the David Peikoff Chair of Deafness Studies, will chair the provincial subcommittee on deafness. Dr Schein was recently appointed to the post by Gary McPherson, Chair of the Premier's Council on the Status of Persons with Disabilities.

The subcommittee on deafness will prepare a written report to the Premier's Council containing short-, medium-, and long-term goals to meet the specific needs of deaf Albertans. The recommended policies will relate to nine areas of living and working in the community: accessibility, financial and personal support, transportation, housing, recreation, education, training, and employment. They will then be incorporated in the Council's recommendations to the Legislature of policies regarding all disabled people in Alberta.

Selection of the remaining members of the subcommittee will be announced shortly. □

Positions

The University of Alberta is committed to the principle of equity in employment.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

Chair, Department of Clothing and Textiles

The incumbent will provide leadership for a diverse academic department offering both undergraduate and graduate programs in clothing and textiles. PhD and demonstrated achievement in research and/or creative expression, graduate advising and teaching required.

Send letter of application, résumé, and three letters of recommendation before 15 June 1989 to: Dr E Murray, Dean, Faculty of Home Economics, 115 Home Economics Building, University of Alberta, Edmonton, Alberta T6G 2M8.

APO, Department of English

The Department of English invites applications for the position of Administrative Professional Officer.

Reporting to the Chair, the APO is accountable for the planning, establishment and maintenance of an administrative support system to

Top researcher in vapor-liquid equilibria here for C-I-L Distinguished Lecture Series

The 1989 C-I-L Distinguished Lecturer in Chemical Engineering is Aage Fredenslund, Head of the Chemical Engineering Department of the Danmarks Tekniske Højskole in Lyngby, Denmark, and an internationally acclaimed researcher in the field of vapor-liquid equilibria.

Professor Fredenslund has published numerous papers on various aspects of thermodynamics and separation processes and is the coauthor of the books *Vapor-Liquid Equilibria Using UNIFAC* and *Properties of Oils and Natural Gases*. He has received the Esso prize for

natural gas research and the Ib Henriksens research prize "for excellent research for the benefit of Denmark". Recently he became the director of a Centre of Excellence for Phase Equilibria and Separation Processes in Denmark.

Dr Fredenslund will give two lectures during his visit to campus. The first, "Prediction of Phase Equilibria from Molecular Structure" (27 April, 3:30 pm), reviews the status and recent progress in the group-contribution approach to predicting liquid-phase activity coefficients. His second lecture (28 April, 3 pm),

"Characterization of Gas Condensate Mixtures", presents experimental data for the phase behavior of North Sea reservoir fluids, one of which is near-critical at reservoir conditions.

Both lectures will be given in 346 Chemical-Mineral Engineering Building.

The Department of Chemical Engineering is grateful to C-I-L Inc for making it possible to bring distinguished lecturers to Edmonton to interact with faculty and professionals from the wider community. □

facilitate the teaching and research functions of the Department. S/he holds responsibility for the preparation and monitoring of budgets (operating, capital, trust), timetabling and student registration. S/he also analyzes and interprets University, Faculty and Department policies, coordinates the activities of the support staff and otherwise assists the Chair and Associate Chairs in all matters conducive to the efficiency and harmony of the Department.

The position calls for someone with intelligence, tact, and initiative, thoroughly literate and capable of working authoritatively with a variety of people. Applicants should also have a university degree and/or considerable administrative experience, preferably at this University.

Salary will be commensurate with qualifications and experience. The current salary range for the position is \$30,734 to \$46,118 per annum.

Applications, including *curriculum vitae* and the names of three referees, should be forwarded to: Dr Linda Woodbridge, Chair, Department of English, University of Alberta, Edmonton, Alberta T6G 2E5. Deadline: 28 April 1989.

Assistant Business Librarian, Humanities and Social Sciences Library

The University of Alberta Libraries invites applications for the position of Assistant Business Librarian, Humanities and Social Sciences Library. Reporting to the Business and Economics Librarian, this position provides reference and information services for all subject areas of business administration and has collection development responsibilities in assigned areas of business administration. Other duties include computer searching, liaison with faculty, and bibliographic instruction.

This is a full-time contract position; depending on the availability of funds, the position may become permanent. The current salary range is \$27,144 to \$47,280. Individuals interested in a job sharing arrangement will be considered. The successful candidate will have an accredited degree in library science; an undergraduate subject specialty in business and/or previous business reference experience is preferred. Knowledge of PC applications in libraries and online searching an asset.

Candidates should send a *curriculum vitae*, transcripts of academic record and the names of three references by 19 May to: Deborah Bloomfield Dancik, Library Personnel, Cameron Library, University of Alberta, Edmonton, Alberta T6G 2J8.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 14 April. For a more up-to-date listing, please consult the weekly *Employment Opportunities Bulletin* and/or the postings in PSSR.

Positions available as of 14 April 1989.

The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program, effective 1 April 1989 for

those positions in the "green-circled" and "white-circled" categories.

Office Services File Clerk, Grade 2, Office of the Registrar, (\$1,288-\$1,586)
Senior Financial Records Clerk, Grade 4, Technical Services, (\$1,462-\$1,900)
Clerk Steno, Grade 5, Office of the Dean of Agriculture and Forestry, (\$1,564-\$2,087)
Clerk Steno, Grade 5, Rural Economy, (\$1,564-\$2,087)
Mailroom Clerk, Grade 4, (40-hour week), Materials Management, (\$1,680-\$2,172)
Administrative Clerk, Grade 6, Office of Student Awards, (\$1,741-\$2,298)
Medical Steno, Grade 6, Pediatrics, (\$1,806-\$2,298)
Secretary, Grade 6, Faculty of Medicine, (\$1,806-\$2,298)
Departmental/Executive Secretary, Grade 6, Faculty of Graduate Studies and Research, (\$1,844-\$2,298)
Office Services Senior Clerk, Grade 6, Pension and Benefits Administration, (\$1,844-\$2,298)
Departmental/Executive Secretary, Grade 7, Office of the Vice-President (Research), (\$1,964-\$2,516)
Housing Worker, Grade 2, Housing and Food Services, (\$1,472-\$1,813)
Administration Assistant, Grade 7, Dean of Arts, (\$2,008-\$2,516)
Equipment Supervisor, Grade 7, (40-hour week), Physical Education (Support Services), (\$2,295-\$2,876)
Administrative Assistant, Grade 9, Housing and Food Services, (\$2,225-\$2,976)
Administrative Assistant, Grade 9, Extension (Local Government Studies), (\$2,225-\$2,976)
Nurse, Grade 9, (40-hour week), University Health Services, (\$2,420-\$3,401)
Technician, Grade 10, Geology, (\$2,527-\$3,223)

The following positions retain salary rates in accordance with the current classification system and pay plan.

Clerk/Clerk Typist II (Part-time/Trust), Pediatrics, (\$679-\$905) (prorated)
Clerk Typist II/III, Pediatrics, (\$1,276-\$1,785)
Clerk Steno III (Part-time/Trust), Faculty of Business, (Accounting), (\$812-\$1,020), (prorated)
Clerk Steno III (Term to 6 November 1990), Faculty of Extension, (\$1,421-\$1,785)
Clerk Steno III (Trust), Academic Staff Association (AAS:UA), (\$1,421-\$1,785)
Secretary (Trust), Faculty of Medicine, (\$1,584-\$2,023)
Building Service Worker II, Housing and Food Services, (\$1,421-\$1,785)
Public Relations/Publications Assistant I (Term to 31 March 1990), Housing and Food Services, (\$1,527-\$1,939)
Technician I/II (Trust), Pediatrics, (\$1,643-\$2,397)
Public Relations/Publications Assistant II, Housing and Food Services, (\$1,785-\$2,297)
Programmer Analyst I, Office of Research Services, (\$2,023-\$2,611)
Technologist I (Split-funded), Zoology, (\$2,023-\$2,611)
Technologist I/II (Trust), Pathology, (\$2,023-\$2,851)
Biochemistry Technologist I/II (Trust), Biochemistry, (\$2,023-\$2,851)
Technologist I (Trust), Immunology, (\$2,023-\$2,611)
Maintenance Worker II (Charge Hand), Physical Plant - Grounds, (\$2,109-\$2,730)

Programmer Analyst II, Computing Science, (\$2,397-\$3,113)
Machinist Technician, Chemistry, (\$2,611-\$3,403)
Programmer Analyst III, Computer Engineering, (\$2,851-\$3,723)
Programmer Analyst III, Computing Science, (\$2,851-\$3,723)

For vacant Library positions, telephone 492-3790.

Postdoctoral position and graduate student in Medicine

Applications are invited for these positions in the Lipid and Lipoprotein Research Group. The projects are mainly focussed on a biochemical approach to the mechanism of regression of atherosclerosis. The initial appointment to the postdoctoral position will be for one year and may be extended to three years. The salary range is \$22,000 to \$27,000 depending on experience.

For further information, contact Dr Shinji Yokoyama, Professor of Medicine, Lipid and Lipoprotein Research Group, 303D Heritage Medical Research Centre, University of Alberta, Edmonton, Alberta T6G 2S2. Telephone 492-2963; FAX 492-3383.

Advertisements

Accommodations available

Rent - Large furnished house, walking minutes from University campus/hospital. 432-7845 (evenings).
Rent - Fully furnished townhouse, May to July. South side. 435-1710 or 492-5731.
Sale - Garneau. Two storey, three bedrooms up, one bedroom basement. Two bathrooms, hardwood floors. Most appliances. Asking \$162,500. 433-6294 for appointment.
Rent - July 1989-June 1990. Quiet, renovated, two-bedroom bungalow with fireplace. Excellent access to University. Prefer no smokers or pets. 455-0620 evenings.
Sale - Laurier brick bungalow, 1,950', three bedrooms, family room, fully developed basement, pool, jacuzzi. Resi Richter, Royal LePage, 483-9432.
Sale - Contemporary bungalow, Valleyview. Three bedrooms, family room. Near river valley. Resi Richter, Royal LePage, 483-9432.
Rent - Spacious, two-bedroom home. Two blocks from University. August 1989-August 1990. No smokers or pets please. Partially furnished. \$750. 439-3360.
Rent - Garneau. Three-bedroom house, two blocks from University. One year from July/August 1989. Furnishings and rent subject to terms. 433-4510.
Rent - University area. Two bedrooms main floor, two bedrooms basement. Garage. \$700/month. 437-2718.
Sale - University/Belgravia area. Immaculate, 1,500' bungalow. Fireplace, nice location. \$135,500. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.
Sale - University/Belgravia area. Nice, four-bedroom semi, hardwood, many upgraded features. \$106,500. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.
Rent - Old Glenora. Wellington Crescent. Two storey, three bedroom, furnished. References, please. No

smokers or pets. 1989-90 academic year. Ray McCall, 421-9900 (office), 455-4619 (home).

Sale - Grandview exclusive! Spacious and special, 1,508' bungalow, well maintained. Call Joan Lynch, Spencer-Real Estate, 436-5250 or 433-9025.

Rent - Young professor would like to share spacious, two-bedroom apartment with young professional or graduate student. 1 May. Two blocks from campus. Pool, laundry. \$330. 492-2828 after 17 April.

Rent - Rossdale, furnished, one-bedroom apartment. June to September 1989. \$325. 428-0423.

Rent - Strathcona. September 1989-June 1990. Three-bedroom duplex, furnished. \$560-\$600/month and utilities. 492-3543, 431-0388.

Sale - Old Strathcona, 1,500', luxury condominium. Two bedrooms, 1 1/2 baths, jacuzzi, fireplace, garburator, two covered parking spots. Excellent condition, \$119,900. 439-8790.

Rent - Large, four-bedroom, executive house. Fully furnished, 3 1/2 baths, many extras, close to University. July 1989-June 1990 (negotiable). Dr Siddiqui, 434-6127 (evenings, weekends).

Rent - Beautiful Blue Quill condominium. Furnished, 2,000 sq. ft., three bedrooms, jacuzzi. 6 May to 30 June 1989. \$1,200/month. Western Relocation, 438-1044, 435-5167.

Rent - Belgravia, near University campus and Hospitals. Furnished, four bedrooms, garage and extra parking space. Non-smoking, no pets. References. \$850 plus utilities. August-December, ideal for study leave. 492-6291 messages.

Rent - Deluxe, two-bedroom condominium. 111 St 80 Ave, balco fireplace, five appliances, underground parking. \$775. 436-6164.

Rent - Large, luxurious, partially-furnished home in Bearspaw, for one year beginning July 1989. Wish to leave family dog with home. \$950/month. 435-8667.

Rent - Central Millwoods. Stove, fridge, garage with opener, University direct bus. 1 June. \$625/month. 463-6419 (evenings, weekends).

Sale - Belgravia. By owner, lovely, three-bedroom semi-bungalow on very large lot. Recently updated and tastefully decorated. New double garage. \$145,900. 437-5248.

Sale - Prestigious, Grandview, spacious, four-level split. Half block from ravine, beautifully landscaped, bright sunny rooms, two baths. Main floor family room. Huge master. Call Sherry Mailo, Re/Max, 438-7000.

Sale - Ready for summer? Choice of three lakefront cottages on Lake Wabamun north shore. For their special features please call Chris Tenove, 436-5250, 433-5664. Spencer Realty.

Sale - Lake Wabamun cottage. Winterized, three bedrooms, sauna, garage. Asking only \$56,500, offers. Chris Tenove, 436-5250, 433-5664. Spencer Realty.

Rent - August for one year, fully-furnished, four-bedroom, study, Aspen Gardens split-level. Near schools, sport facilities, shopping. Bus, bike path to University. Fireplace, sundeck. \$900. 492-2335. 436-8808.

Rent - Lansdowne, four-bedroom, furnished home. Fireplace, double garage, swimming pool, jacuzzi. September 1989-August 1990.

Accommodations wanted

Professor and family to housesit, May-August. Willing to pay some rent. 1-286-0203 collect.
Lecturer and spouse desire tment/house to housesit -June. References. 437-2480.

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1987 Volvo 240DL, blue, 4-door sedan, 27,000 km, automatic, stereo-cassette, service records, top condition, \$16,750. 492-5265.

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American tax returns. Eberlein Consulting, 434-0563.
Quill word processing, term papers, professional editing. 437-4356.
meets East in historic Turkey! Exclusive, small group travel. Reserve now for September: 22-day cultural adventure. \$3,100. Golden Horn Tours, 10115 150 St, T5P 1P2; 483-8288, 435-2129.

Canadian Crossroads International dinner, 25 April, featuring Doug Roche, Canadian Ambassador to the UN for Disarmament, speaking on "New Challenges for Canada". Tickets \$20. For information, Allan, 455-4960, Ralph, 455-1069.

Lesley K Glover Homesitting Service: security checks, pets and plants cared for in your home. Mail, etc, taken in. Licenced, bonded and insured. (403) 437-0129.

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75th Anniversary Faculty of Medicine

Distinguished Scientist Award to

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M.D., Ph.D., F.R.C.P.(C)
Julianne Dorn Professor of Neurology
Harvard Medical School

*"The Impact of Molecular Genetics
on Neurology and Psychiatry"*

3:30 p.m. Wednesday, May 10th, 1989
Bernard Snell Hall
Walter Mackenzie Health Sciences Centre

In its 75th anniversary year, the Faculty of Medicine is honoring Dr. Joseph B. Martin, one of its most distinguished graduates, for his outstanding contributions to medical science.

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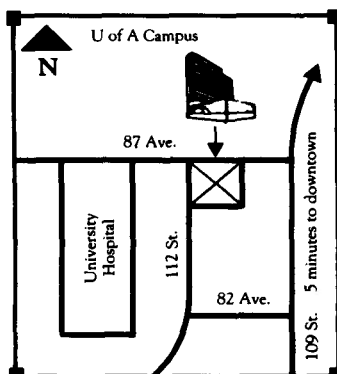
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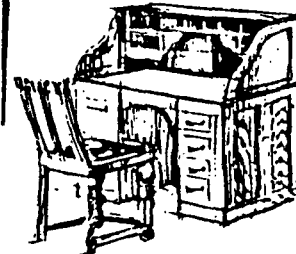
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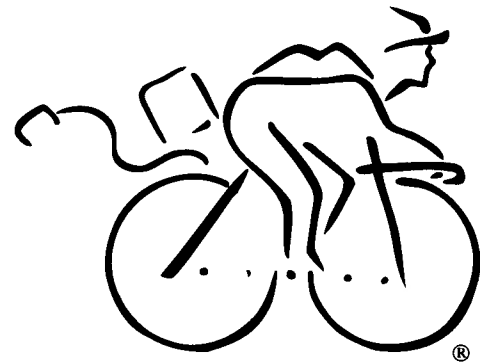
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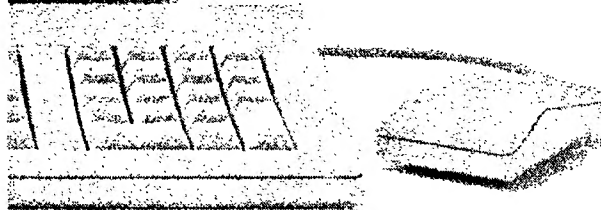
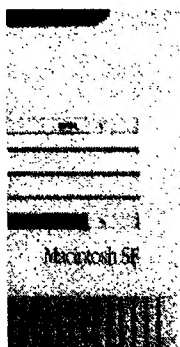
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Details: Buy a Mac and peripherals between March 1st and May 31st, and ask the Bookstore for a rebate coupon. Mail in your receipt along with the completed coupon, and a cheque will be mailed to you, direct from Apple Canada. You can only apply for one of these rebates per CPU purchased. No stand-alone peripherals will be rebated. University and Personal purchases qualify. This offer is in effect March 1/89 through May 31/89.

For more information, contact

The Microstore, Lower Floor SUB, 492-1495

The Micro Demonstration Centre, 302 GenServ, 492-5442

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EVENTS



Talks

Marketing and Economic Analysis

20 April, 3 pm Kenji Tominomori, professor, Faculty of Economics and Business Administration, Hokkaido University, "Has the KANBAN System Really Surpassed Fordism? (An Assessment of the Impact of "Just-in-Time" System)." 4-16 Business Building.

Strathcona Archaeological Society

20 April, 8 pm Brian Smith, "Fur Trade Archaeology: Setting Lake, Manitoba." Auditorium, Provincial Museum.

Medicine

21 April, 9 am Herman J Gelmers, Department of Neurology, Streekeziekenhuis, Almelo, The Netherlands, "Acute Cerebral Ischemia—Radical Approaches." Classroom F (2J4.02 WMC).

Area Studies Committee Africa and South Asia

21 April, 3 pm A film presentation, "Maharajah Swathi Thirunal: A Great Composer and Social Reformer"—a short introduction by P Krishnan. 14-6 Tory Building.

Animal Science

21 April, 3 pm John Dugan, "Neonatal Lipid Digestion." 1-13 Agriculture-Forestry Centre.
28 April, 3 pm G Wu, M Liu, Z Zhang, and S Tian, "Education in China." 1-13 Agriculture-Forestry Centre.
5 May, 3 pm Ramsoondar Jagdeede, "Immunological Aspects of Early Pregnancy." 1-13 Agriculture-Forestry Centre.

Law

22 April, 9:30 am Saturday Morning at the Law School—"Immigration and Refugees." Law Centre.

Club IDC

24 April, 3:30 pm 30-minute video on the "Kerala Sastra Parishad Movement" (Popular Science in India). Comments by M Zachariah, University of Calgary. 5-180 Education North.

Philosophy

24 April, 4 pm Michael Ruse, University of Guelph, "Philosophy of Biology Today." 3-10 Business Building.
25 April, 4 pm Dr Ruse, "Is the Theory of Punctuated Equilibria a New Paradigm?" 3-06 Business Building.

Alberta Heritage Foundation for Medical Research

24 April, 4 pm F Jurnak, "Structural Studies of a Model G Protein: Elongation Factor Tu At 2.6 Å Resolution." Classroom F (2J4.02 WMC)

Soil Science

27 April, 12:30 pm GM Gillund, "The Use of Nitrogen Fixing Annual Legumes in Agricultural Systems." 2-36 Earth Sciences Building.
4 May, 12:30 pm DW Anderson, Saskatchewan Institute of Pedology, "A Gaian Perspective of Soil Science." 2-36 Earth Sciences Building.

History

27 April, 2:30 pm Michael H Kater, York University, "The Decline of the Medical Profession in Germany From the Late Nineteenth Century to 1945." 2-09 Business Building.

Comparative Literature English, Slavic and East European Studies and Czechoslovak Society of Arts and Sciences

29 April, 3:30 pm A reading by Jan Drabek of his short story *Pensacola* and a showing of his film "Father's Return to Auschwitz." B-05 Business Building.

Applied Mathematics Institute

2 May, 2 pm Roland Glowinski, professor, Department of Mathematics, University of Houston, "Numerical Aspects of Boundary Controllability of the Wave Equation." 657 CAB.

Health Services Administration and Community Medicine

3 May, noon Giovanni Pagano, Pascale Foundation, National Cancer Institute, Naples, "Environmental Acidification: Sub-Lethal Effects." 13-114 Clinical Sciences Building.

Techniques in Cell and Molecular Biology Seminar Series

3 May, noon Monica Baga, "DNA Sequencing: Manual and Automated." Presented by Anatomy and Cell Biology. 6-28 Medical Sciences Building.

Geography

5 May, 3 pm John Current, Faculty of Management Science, Ohio State

University, "The Median Tour Problem." 3-36 Tory Building.

Chemistry

8 May, 11 am Richard FW Bader, Department of Chemistry, McMaster University, "Quantum Mechanics Predicts Atoms in Molecules." V-107 Physics Building.
9 May, 11 am Professor Bader, "A Theory of Molecular Structure and Structural Stability." V-107 Physics Building.
10 May, 11 am Professor Bader, "The Physical Basis of the Lewis Electron Pair Model." V-107 Physics Building.

The Arts

Exhibitions

FAB Gallery

Until 23 April "BFA Drawing Show"—selected drawings by senior students in the BFA program.

Bruce Peel Special Collections

Until 14 June "thought prints"—an investigation of the form and content of language on the printed page. First collaborative exhibition by students in Visual Communications Design, Art and Design, and Special Collections. Hours: 8:30 am to 4:30 pm; Monday to Friday. 492-5998. B-7 Rutherford South.

Music

20 April, 2 pm Meet the Masters—Piano Masterclass. Grant Johannesen, pianist. Admission: \$5/adults; \$3/students and seniors. Buchanan Hall, Alberta College.
29 April, 8 pm World Music Concert—presenting ethnic music performed by local community groups. Admission: \$5. Convocation Hall.

SUB Theatre

21 April, 8 pm Faculté Saint-Jean presents "Hart Rouge." 469-4401.
23 April, 2 pm Yatran Dance Recital.
26 April, 6 pm The Edmonton Women's Shelter (WIN House) hosts "A Variety Show." 426-2047.

A Celebration

OF MYER HOROWITZ'S PRESIDENCY

Everyone is invited to an afternoon reception on Friday, 16 June, to honor Myer Horowitz. The reception will be held in the Arts Court from 3 to 5 pm and it will give everyone an opportunity to meet with Dr and Mrs Horowitz. A retrospective exhibit of the Horowitz years will also be on display in the Galleria connecting the Tory and Business Buildings.

University buildings will close at 3 pm on 16 June and there will be free parking for friends and visitors who join us for this celebration.